

<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>				Complete if Known			
				Application No.		09/707,737	
				Filing Date		11/6/00	
				First Named Inventor		Quake	
				Art Unit		1634	
				Examiner Name		Chakrabarti	
Sheet	5	Of	5	Attorney Docket No.		30260.702.501	

OTHER PRIOR ART – NON PATENT RELATED DOCUMENTS

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 10

Application Number	09/707,737
Filing Date	November 6, 2000
First Named Inventor	
Art Unit	1655
Examiner Name	Arun K. Chakrabarti
Attorney Docket Number	20174C-001810US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-4,118,388	10/10/1978	Yamakazi	CL/56
	A2	US-4,344,064	08/10/1982	Bitter et al.	—
	A3	US-4,707,237	11/17/1987	Lapp et al.	—
	A4	US-4,793,705	12/27/1988	Shers	—
	A5	US-4,971,903	11/20/1990	Hyman	—
	A6	US-4,979,824	12/25/1990	Mathies et al.	—
	A7	US-4,994,373	02/19/1991	Stavrianopoulos	—
	A8	US-5,085,562	02/04/1992	Van Lintel	—
	A9	US-5,091,852	02/25/1992	Mathies et al.	—
	A10	US-5,098,388	03/17/1992	Weinberg	—
	A11	US-5,143,854	09/01/1992	Pirnung et al.	—
	A12	US-5,171,132	12/15/1992	Miyazaki	—
	A13	US-5,224,843	07/06/1993	Van Lintel	—
	A14	US-5,242,797	09/07/1993	Hirschfeld	—
	A15	US-5,259,737	11/09/1993	Kemisaki et al.	—
	A16	US-5,302,509	04/12/1994	Cheeseman	—
	A17	US-5,304,487	04/19/1994	Wilding et al.	—
	A18	US-5,338,062	08/09/1994	Richter	—
	A19	US-5,375,979	12/27/1994	Trah	—
	A20	US-5,376,252	12/27/1994	Ekstrom	—
	A21	US-5,405,747	04/11/1995	Jett et al.	—
	A22	US-5,424,186	08/13/1995	Fodor et al.	—
	A23	US-5,529,455	06/25/1996	Zangerle et al.	—
	A24	US-5,599,895	02/04/1997	Pease et al.	—
	A25	US-5,705,018	01/06/1998	Hartley	—
	A26	US-5,776,782	07/07/1998	Tsujii	—
	A27	US-5,831,070	11/03/1998	Pease et al.	—
	A28	US-5,832,165	11/03/1998	Reichert et al.	—
	A29	US-5,836,750	11/17/1998	Cabuz	—
	A30	US-5,846,396	12/06/1998	Zanzucchi et al.	—
	A31	US-5,881,287	01/19/1999	Metzkar et al.	—
	A32	US-5,908,755	06/01/1999	Kumar et al.	—
	A33	US-5,945,283	06/31/1999	Kwok et al.	—
	A34	US-5,959,761	09/28/1999	Kintz et al.	—

Examiner Signature	HURLICK	Date Considered	4/28/04
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Page **3** of **10**

Application Number	09/707,737
Filing Date	November 6, 2000
First Named Inventor	
Art Unit	1855
Examiner Name	Arun K. Chakrabarti
Attorney Docket Number	20174C-00181000

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U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				

FOREIGN PATENT DOCUMENTS

Examiner Initials ³	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³				
9/29/	B1	PCT	WO 00/50642	A1	08/31/2000	<input checked="" type="checkbox"/>
	B2					<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ⁵	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1		

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Page 2 of 12

Application Number	09/707,737
Filing Date	November 6, 2000
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Art Unit	1655
Examiner Name	Arun K. Chakrabarti
Attorney Docket Number	20174C-001810US

U.S. PATENT DOCUMENTS

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		Number Kind Code ² (if known)			
	A35	US-5,908,755	08/01/1999	Kumar et al.	111
	A36	US-5,945,283	08/31/1999	Kwok et al.	111
	A37	US-5,959,781	09/26/1999	Kintz et al.	111
	A38	US-5,965,446	10/12/1999	Ishikawa, Mitsuru	111
	A39	US-6,007,309	12/28/1999	Hartley	111
	A40	US-6,020,457	02/01/2000	Klimash et al.	111
	A41	US-6,043,080	03/28/2000	Lipshutz et al.	111
	A42	US-6,084,274	06/25/2000	Yokoi	111
	A43	US-6,107,044	08/22/2000	Nikitorov	111
	A44	US-6,132,580	10/17/2000	Mathies et al.	111
	A45	US-6,136,212	10/24/2000	Mastrangelo et al.	111
	A46	US-6,177,249 B1	01/23/2001	Kwok et al.	111
	A47	US-6,210,696 B1	04/03/2001	Chan	111
	A48	US-6,221,592 B1	04/24/2001	Schwartz et al.	111
	A49	US-6,255,083 B1	07/03/2001	Williams	111
	A50	US-6,283,286 B1	07/17/2001	Gilmanshin et al.	111
	A51	US-6,344,325 B1	02/05/2002	Quiske et al.	111
	A52	US-6,355,420 B1	03/12/2002	Chen	111
	A53	US-6,381,671 B1	03/26/2002	Mathies et al.	111
	A54	US-6,403,311 B1	06/11/2002	Chan	111
	A55	US-2003-0022207	01/30/2003	Balasubramenian et al.	111
	A56	US-2003-0064398	04/03/2003	Barnes	111

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page

3

of

12

Application Number	09/707,737
Filing Date	November 6, 2000
First Named Inventor	
Art Unit	1655
Examiner Name	Arun K. Chakrabarti
Attorney Docket Number	20174C-001810US

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴				
	B1	EPO	EP 0 579 997	A1	01/26/1994		<input type="checkbox"/>
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	B3	EPO	EP 0 706 004	A2	04/10/1996	111	<input type="checkbox"/>
	B4	EPO	EP 0 779 436	A2	06/18/1997	111	<input type="checkbox"/>
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	B12	PCT	WO 93/21340	A1	10/28/1993	111	<input type="checkbox"/>
	B13	PCT	WO 95/27080	A2	10/12/1995	111	<input type="checkbox"/>
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	B20	PCT	WO 98/44152	A1	10/08/1998	111	<input type="checkbox"/>
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	B28	PCT	WO 00/53805	A1	09/14/2000	111	<input type="checkbox"/>
	B29	PCT	WO 00/58507	A1	10/05/2000	111	<input type="checkbox"/>
	B30	PCT	WO 01/01025	A2	01/04/2001	111	<input type="checkbox"/>
	B31	PCT	WO 01/23610	A2	04/05/2001	111	<input type="checkbox"/>
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	B33	PCT	WO 01/32930	A1	05/10/2001	111	<input type="checkbox"/>

Examiner Signature

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Date Considered

4/28/04

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Page 4 of 12

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		Country Code ²	Number ³	Kind Code ⁴ (if present)			
W	B34	PCT	WO 01/42496	A2	06/14/2001	—	<input type="checkbox"/>
	B35	PCT	WO 01/57248	A2	06/09/2001	—	<input type="checkbox"/>
	B36	PCT	WO 01/57249	A1	06/09/2001	—	<input type="checkbox"/>
	B37	PCT	WO 02/00343	A2	01/03/2002	—	<input type="checkbox"/>
	B38	PCT	WO 02/29108	A2	04/11/2002	—	<input type="checkbox"/>
	B39	PCT	WO 02/30486	A2	04/18/2002	—	<input type="checkbox"/>
	B40	PCT	WO 02/061126	A2	08/08/2002	—	<input type="checkbox"/>
	B41	PCT	WO 02/061127	A2	08/08/2002	—	<input type="checkbox"/>
	B42	PCT	WO 03/016565	A2	02/27/2003	—	<input type="checkbox"/>

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5

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NON PATENT LITERATURE DOCUMENTS

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	C1	ADAM, DAVID "Individual genomes targeted in sequencing revolution", Nature, 2001, p.402, Vol. 411.	
	C2	AMBROSE, W.P. et al. "Single-Molecule Detection With Total Internal Reflection Excitation: Comparing Signal-to-Background and Total Signals in Different Geometries" Cytometry, 1999, p. 224-231, Vol. 36.	
	C3	ARNDT-JOVIN et al. "Immunofluorescence Localization of Z-DNA in Chromosomes: Quantitation by Scanning Microphotometry and Computer-assisted Image Analysis" Journal of Cell Biology, October 1985, pp. 1422-1433, Vol. 101.	
	C4	AXELROD et al. "Total internal reflection fluorescent microscopy", Journal of Microscopy, January 1983, pp. 19-28, Vol. 129, Part 1.	
	C5	AXELROD, DANIEL "Cell-Substrate Contacts Illuminated by Total Internal Reflection Fluorescence" Journal of Cell Biology, April 1981, pp. 141-145, Vol. 89	
	C6	BASCHÉ et al. Chapter 2: "Near-field Optical Imaging and Spectroscopy of Single Molecules" and Chapter 3: "Single-Molecule Detection in Analytical Chemistry", <u>Single Molecule Optical Detection, Imaging, and Spectroscopy</u> , 1997, Published by Weinheim:VCM, Germany.	
	C7	BRASLAWSKY et al. "Objective-type dark-field illumination for scattering from microbeads", Applied Optics, November 2001, p. 5650-5657, Vol. 40, No. 31	
	C8	BRASLAWSKY et al.; "Single Molecule Measurements of DNA Polymerase Activity: A Step Towards Single Molecule Sequencing", Biophysics Journal Abstracts Issue, 2002, p. 507A	
	C9	BRECHTEL et al.: "Control of the electroosmotic flow by metal-salt-containing buffers", J Chromatography A, 1995, pp. 97-105, Vol. 716	
	C10	BRYZEK et al.: "Micromachines on the March", IEEE Spectrum, 1994, pp. 20-31, Vol. 31, No. 5	
	C11	BUCHAILLOT et al.; "Silicon nitride thin films Young's modulus determination by an optical non-destructive method", Jpn. J Appl Phys, 1995, pp. L794-L797, Vol. 36, No. 2:68	
	C12	BURGHARDT et al. "Total Internal Reflection/Fluorescence Photobleaching Recovery Study of Serum Albumin Adsorption Dynamics" Biophys. Journal, March 1981, pp. 455-468, Vol. 33	
	C13	BURGHARDT et al. "Total Internal Reflection Fluorescence Study of Energy Transfer in Surface-Adsorbed and Dissolved Bovine Serum Albumin" Biochemistry, 1983, pp. 979-985, Vol. 22.	
	C14	CHICUREL, "Faster, better, cheaper genotyping", Nature, August 2001, p. 580-582, Vol. 412, Issue 6847.	

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6 of 12

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<i>PKH</i>	C15	CHIU et al.; "Patterned Deposition of Cells and Proteins onto Surfaces by Using Three-Dimensional Microfluidic Systems", Proc. Natl. Acad. Sci., 2000, pp. 2408-2413, Vol. 97, No. 6	
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4711055 v1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page

7 of 12

Application Number	09/707,737
Filing Date	November 6, 2000
First Named Inventor	
Art Unit	1655
Examiner Name	Arun K. Chakrabarti

Attorney Docket Number

20174C-001810US

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<i>RKA</i>	C28	GOLL et al., "Microvalves with bistable buckled polymer diaphragms," <i>J. Micromech. Microeng.</i> , 1996, pp.77-79, Vol. 6	
	C29	GRAVESEN et al.; "Microfluids- A Review", <i>Journal Micromech Microeng.</i> , 1993, pp. 168-192, Vol. 3	
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4711055 v1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page

8

of

12

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Attorney Docket Number	20174C-001810US

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Page

9

of

12

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Page 10

of 12

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page

11

of

12

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Page

12

of 12

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<i>WJH</i>	C99	ZDEBLICK et al. "A Microminiature Electric-to-Fluidic Valve", <i>Transducers '97, The 4th International Conference on Solid-State Sensors and Actuators</i> . Reprinted in <i>Micromechanics and MEMS Classic and Seminal Papers to 1990, 1997</i> , IEEE Press, USA.	
	C100		

Examiner Signature	<i>HORLICK</i>	Date Considered	<i>4/28/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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